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NOTICE OF ALLOWANCE AND FEE(S) DUE

26230 7590 12/01/2008

FISH & RICHARDSON P.C. P.O. BOX 1022

MINNEAPOLIS, MN 55440-1022

EXAMINER
COLAN, GIOVANNA B

ART UNIT PAPER NUMBER

2162 DATE MAILED: 12/01/2008

APELICATION NO. FILING DATE FIRST NAMED RIVENTOR ATTORNEY DOCKET NO. CONTRIBUTION NO.

107/56/001 121/5/2003 John D. Richter 14012-05/3001/50-03-034 2963

TILLS OF INVENTION: MANAGOING ELECTRONIC INFORMATION

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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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APPLICATION NO.	FILING DATE		FIRST NAMED INVE		NTOR ATTORNEY			RNEY DOCKET NO.	CONFIRMATION NO.
10/736,001 TITLE OF INVENTION	12/I5/2003 : MANAGING ELECTE	RONIC INF	FORMATION	John D. Richter			14012-	053001/50-03-034	2963
APPLN. TYPE	SMALL ENTITY	ISSUE	FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	s	1510	\$300		\$0		\$1810	03/02/2009
EXAM	INER	AR	UNIT	CLASS-SUBCLASS					
COLAN, GIO	OVANNA B	2	162	707-010000	_	l			
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA iess an assignee is ident h in 37 CFR 3.11. Comp	nge of Corr 'Indication ed. Use of	form a Customer		ip to native or a attor il be p or typ he pa g an a	3 registered paten ely, 2 firm (having as a gent) and the name neys or agents. If a printed. e) ttent. If an assignates assignment.	membes of up	er a 2	cument has been filed for
Please check the appropri	iate assignee category or	categories	(will not be pr	inted on the patent):	۵	Individual 🚨 Co	rporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted: Itsue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				4h. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	s SMALL ENTITY state	s. See 37 C						TTY status. See 37 CF	
interest as shown by the	d Publication Fee (it req records of the United Sta	ured) will i tes Patent a	not be accepte ind Trademark	d from anyone other the Office.	nan ti	ne applicant; a regi	stered a	ittorney or agent; or th	e assignee or other party in
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DATE MAILED: 12/01/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/736,001	12/15/2003	John D. Richter	14012-053001/50-03-034	2963	
26230	7590 12/01/2008		EXAMINER		
FISH & RICHARDSON P.C.			COLAN, GIOVANNA B		
P.O. BOX 1022		ART UNIT	PAPER NUMBER		
MINNEAPOLIS, MN 55440-1022			2162		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 442 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 442 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

1 Notice of Allowability GIOVANNA COLAN

Application No.	Applicant(s)	
0/736,001	RICHTER, JOHN D.	
xaminer	Art Unit	
CIOVANNA COLAN	2462	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- This communication is responsive to amendment filed 09/03/2008.
- 2. The allowed claim(s) is/are 1 23.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3.
 ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 12/15/2003
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

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EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- Authorization for this examiner's amendment was given in a telephone interview with Elizabeth Philip Dahm on November 05 and November 19, 2008.
- 3. The application has been amended as follows:

In the claim:

Please amend claims 1, 10, 14, 17, 18, and 23 as follows:

A method <u>implemented by a computer, the method</u> comprising:
 analyzing a plurality of database access statements <u>stored in a computer</u>
 memory that were issued for an application during the application's use to determine previous accessed items and types of access for the application; and

developing a role for the application based on the previous accessed items and types of access for the application, wherein when the application is in use by a user, the developed role for the application allows the user database access.

10. An article of manufacture comprising:

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a machine-readable <u>storage</u> medium storing instructions eperable <u>configured</u> to cause one or more machines to perform operations comprising:

analyzing a plurality of database access statements that were issued for an application during the application's use to determine previous accessed items and types of access for the application; and

developing a role for the application based on the previous accessed items and types of access for the application, wherein when the application is in use by a user, the developed role for the application allows the user database access.

- 14. The article of claim 10 wherein the instructions are further eperable configured to cause one or more machines to perform operations comprising determining which of a set of users are authorized to use the application.
- 15. The article of claim 10 wherein the instructions are further operable configured to cause one or more machines to perform operations comprising:

determining whether a user request to establish an application session has been detected; finding the role for the application; and

assigning the role to a user

17. The article of claim 15 wherein the instructions are further eperable configured to cause one or more machines to perform operations comprising: detecting an end of the application session; and if an end of the application session is detected, disabling the assigned role for the user

18. A database security analyzer comprising:

a communication interface operable configured to receive a plurality of database access statements that were issued for an application during the application's use;

a memory operable <u>configured</u> to store the issued database access statements; and

a processor eperable configured to develop a role for the application based on the previously issued database access statements for the application, wherein when the application is in use by a user, the developed role for the application allows a user database access

23. A method implemented by a computer comprising:

capturing a plurality of database access statements that were issued for one or more applications during the application's use, wherein the database access statements comprise Structured Query Language (SQL) queries;

normalizing the captured database access statements;

eliminating redundancies in the normalized database access statements;

analyzing the normalized database access statements <u>stored in a computer</u>

memory to determine previous accessed items and types of access for an application,

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wherein the previous accessed items and types of access include objects accessed and operations performed on the objects;

determining permissions for the application based on the previous accessed items and types of access for the application;

developing a role for the application based on the determined permissions;

determining which of a set of users are authorized to use the application;

detecting a user request to establish a session of the application;

determining if the user is authorized to use the application;

if the user is authorized to use the application, finding the role for the application; assigning the role to the user;

detecting an end of the application session; and

if an end of the application session is detected, disabling the assigned role for the user.

REASONS FOR ALLOWANCE

 Claims 1 – 23 are allowable in light of the applicant's arguments and in light of the prior art made of record.

Reason for Indicating Allowable Subject Matter

5. The following is an examiner's statement of reasons for allowance: Upon searching a variety of databases, the examiner respectfully submits that "determine previous accessed items and types of access for the application; and developing a role

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for the application based on the previous accessed items and types of access for the application, wherein when the application is in use by a user, the developed role for the application allows the user database access" as recited in claims 1, and 10; "a processor configured to develop a role for the application based on the previously issued database access statements for the application, wherein when the application is in use by a user, the develop role for the application allows a user database access" as recited in claim 18; and "determine previous accessed items and types of access for an application, wherein the previous accessed items and types of access include objects accessed and operations performed on the objects; determining permissions for the application based on the previous accessed items and types of access for the application; developing a role for the application based on the determined permissions; determining which of a set of users are authorized to use the application" as recited in claim 23 in conjunction with all other limitations of the dependent and independent claims are not taught or suggested, or obvious over the prior art of record. Therefore, claims 1 – 23 are hereby allowed.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issues fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance." Application/Control Number: 10/736,001

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Points of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIOVANNA COLAN whose telephone number is (571)272-2752. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Giovanna Colan Examiner Art Unit 2162 November 19, 2008

/John Breene/ Supervisory Patent Examiner, Art Unit 2162